PEP Testing Laboratory
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REPORT NO. :E930560 NVLAP LAB CODE: 200097-0

FCC DoC TEST REPORT

According to

FCC Part 15 Subpart B

Test Item : Switching Power Supply

Model No. : ISO-Pxxxy (where xxx = 250, 300, 350, 400, 450, 500；y = S, D or L), ISO-xxxy (where xxx = 200, 230, 250, 300, 350, 400, 450, 500；y = D, L or blank)

Responsible Party : CHANNEL WELL TECHNOLOGY CO., LTD

Address 3F-2, 888 Jing-Gwo Rd., Tao Yuan City, Taiwan, R. O. C.

Test Engineer : STEVEN CHEN

Test Date : OCT. 07, 2004

Issued Date : NOV. 09, 2004

NVLAP Signature : Peter Kao
Peter Kao / President

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- The report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States government.
- This report is only for item test which described in page 5.
- The testing result in this report are traceable to national and international standard.

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1. Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under EUT Docket 95-19 Declaration of Conformity(DoC).

Responsible Party*:	CHANNEL WELL TECHNOLOGY CO., LTD
Address:	3F-2, 888 Jing Rd., Tao Yuan City, Taiwan, R. O. C.
Contact Person:	Jacky Hsieh / Engineer
Phone No.:	886-3-3163111 **Fax No.:** 886-3-3160455

- ✧ Regulation: FCC Part 15 & Part 2; Docket 95-19
- ✧ Limitation: CISPR 22 CLASS B
- ✧ Test Procedure: ANSI C63.4(1992)
- ✧ Test Item: Switching Power Supply
- ✧ Model No.: ISO-Pxxxy, ISO-xxxy
- ✧ Serial No.: N/A
- ✧ Place of Test: PEP Testing Laboratory

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Measurement Uncertainty :

The uncertainty of the testing result is given as below. The method of uncertainty Calculation is provided in PEP Testing Lab document No. QP-T-28-A & QP-T-27-A

Frequency (MHz)	0.15 ～ 30	30 ～ 1000
Expanded Uncertainty μ_c	1.4 (dB)	2.8 (dB)

※ 95% Confidence Level; K=2

2. Product Information

a. EUT Name: Switching Power Supply

b. Model No.： ISO-P500D

c. Chassis Used： Steel

d. Port/Connector(s) ： N/A

e. Power Rating： Switching Power Supply -----
Model No.: ISO-P500D
Input: AC 120V 9A 60Hz 420W
Output:DC+3.3V, +5V, +12V1, +12V2, -12V, +5Vsb
22A, 32A, 14A, 15A, 0.5A, 2.0A

f. Condition of the EUT : ☐ Prototype Sample ☑ Engineering Sample
☐ Production Sample

g. Test Item Receipt Date : OCT. 07, 2004

3. EUT Description and Test Conclusion

The equipment under test (EUT) is Switching Power Supply model ISO-500y, ISO-450y, ISO-400y, ISO-350y, ISO-300y, ISO-250y, ISO-230y, ISO-200y (where y="D" indicates 8cm and 9cm dual fans, "L" indicates 12cm fan or "being blank" indicates 8cm single fan) and ISO-P500y, ISO-P450y, ISO-P400y, ISO-P350y, ISO-P300y and ISO-P250y (where y="S" indicates 8cm single fan, "D" indicates 8cm and 9cm dual fans or "L" indicates 12cm fan). These models have identical electrical design and construction except that they are different in I/O ratings. From technical point of view, we only took the worst-case model ISO-P500D for test. The EUT is power switching device designed for the use to transform AC mains to DC power used by PC system. For more detail information about EUT, please refer to user manual.

Test method: According to the major function design, the EUT was installed on PC system inside enclosure for test. The test was carried out on EUT operational condition and the worst-case test result was recorded and provided in this report.

Conducted emission test:
The system was setup with the EMI diagnostic software running. The power line conducted EMI tests were run on the line and neutral conductors of the power cord and the results were recorded. The effect of varying the position of the interface cables has been investigated to find the worst-case configuration that produces maximum emission.
At the frequencies where the peak values of the emission exceeded the quasi-peak limit, the emissions were also measured with the quasi-peak detectors. The average detector also measured the emission either (A) quasi-peak values were under quasi-peak limit but exceeded average limit, or (B) peak values were under quasi-peak limit but exceeded average limit.

Radiated emission test:
The maximum readings were found by varying the height of antenna and then rotating the turntable. Both polarization of antenna, horizontal and vertical, are measured. The effect of varying the position of the interface cables has been investigated to find the configuration that produces maximum emission.
The highest emissions were also analyzed in details by operating the spectrum analyzer in fixed tuned quasi-peak mode to determine the precise amplitude of the emissions.

ISO-Pxxxy Series I/O List

Model	I/P rating (ac)	Output rating (dc)								
		+3.3V	+5V	+12V1	+12V2	-12V	-5V*	+5Vsb	+3.3V & +5V	Total
ISO-P500y y=S, D or L	115/230Vac, 9/5A, 60/50Hz	22	32	14	15	0.5	0.5	2.0	220W	420W
ISO-P450y y=S, D or L	115/230Vac, 8/5A, 60/50Hz	20	28	10	15	0.5	0.5	2.0	200W	350W
ISO-P400y y=S, D or L	115/230Vac, 7/4A, 60/50Hz	20	26	8	14	0.5	0.5	2.0	185W	300W
ISO-P350y y=S, D or L	115/230Vac, 7/4A, 60/50Hz	16	22	6	12	0.5	0.5	2.0	150W	250W
ISO-P300y y=S, D or L	115/230Vac, 6/4A, 60/50Hz	14	20	6	10	0.5	0.5	1.5	135W	235W
ISO-P250y y=S, D or L	115/230Vac, 5/3A, 60/50Hz	14	18	6	8	0.5	0.5	1.5	120W	200W

* -5V optional

ISO-xxxy Series I/O Rating List

Model	I/P rating (ac)	Output rating (dc)							
		+3.3V	+5V	+12V	-12V	-5V	+5Vsb	+3.3V, +5V	Total
ISO-500y y=D, L or blank	115/230Vac, 9/5A, 60/50Hz	22	36	18	0.5	0.5	2.0	220W	420W
ISO-450y y=D, L or blank	115/230Vac, 8/5A, 60/50Hz	20	32	16	0.5	0.5	2.0	200W	350W
ISO-400y y=D, L or blank	115/230Vac, 7/4A, 60/50Hz	20	30	15	0.5	0.5	2.0	185W	300W
ISO-350y y=D, L or blank	115/230Vac, 7/4A, 60/50Hz	16	25	13	0.5	0.5	1.5	150W	250W
ISO-300y y=D, L or blank	115/230Vac, 6/4A, 60/50Hz	14	20	12	0.5	0.5	1.5	135W	235W
ISO-250y y=D, L or blank	115/230Vac, 5/3A, 60/50Hz	14	18	10	0.5	0.3	1.5	120W	200W
ISO-230y y=D, L or blank	115/230Vac, 5/3A, 60/50Hz	10	16	7	0.3	0.3	1.5	110W	180W
ISO-200y y=D, L or blank	115/230Vac, 4/3A, 60/50Hz	10	14	6	0.3	0.3	1.5	100W	150W

4. Modification(s):

N/A

5. Test Software Used

(A) EMITEST program that continuously generates a complete line of repeating “H” letter was the software used during test.

6. Support Equipment Used

1.Personal Computer	**CPU :** Intel P4 Xeon 2.4GHz **FCC ID**：Declaration of Conformity(DoC) **Manufacturer**：IWILL **Model Number**：DPL533 **Power Supply**：Switching **Power Cord**：Non-Shielded, Detachable, 1.8m **Data Cable**：N/A
2.Keyboard (KBS1 PS/2)	**FCC ID**：E5XKB5121WTH0110 **Manufacturer**：BTC **Model Number**：5121W **Power Supply**：+5Vdc from PS2 of PC **Power Cord**：N/A **Data Cable**：**1 >** Shielded , Non-detachable,1.6m **2 >** Back Shell : Metal
3.Monitor (MON1 15")	**FCC ID**：Declaration of Conformity(DoC) **Manufacturer**：SAMSUNG **Model Number**：550S **Power Supply**：Switching **Power Cord**：Non-Shielded, Detachable, 1.8m **Data Cable**：**1 >** Shielded , Non-detachable,1.5m **2 >** Back Shell : Metal
4.Printer (PRN1)	**FCC ID**：Declaration of Conformity(DoC) **Manufacturer**：Hewlett-Packard **Model Number**：C2642E **Power Supply**：Linear, 30Vdc O/P **Power Cable**：Non-Shielded , Detachable,1.7m **Data Cable**：**1 >** Shielded , Detachable,1m **2 >** Back Shell : Metal

5.Modem (MOD1) × 2

FCC ID：IFAXDM1414
Manufacturer：ACEEX
Model Number：1414
Power Supply：Linear, 9Vac O/P
Power Cable：Non-Shielded , Detachable,1.7m
Data Cable：**1 >** Shielded , Detachable,1m
2 > Back Shell : Metal

6.Mouse (MOUS/1 PS/2)

FCC ID：DZL211106
Manufacturer：ACER
Model Number：M-S42
Power Supply：+5Vdc from PS2 of PC
Power Cord：N/A
Data Cable：**1 >** Shielded , Non-detachable,1.8m
2 > Back Shell : Metal

7. Description of Conducted Emissions Test

7.1 Conducted Emissions

A 1m x1.5m wooden table 80 cm high is placed 40cm away from the vertical wall. Two AMN are bonded to the grounding plane. The EUT is powered from the designated AMN and the support equipment is powered from another designated AMN. Powers to the AMN are filtered by a high-current high insertion loss power line filters. All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2". All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the AMN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150kHz to 30 MHz with1.5 sec sweep time. The frequency producing the maximum level was re-examined using Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission.

7.2 Conducted Emissions Limits

Frequency	Maximum RF Line Voltage dB(uV)			
	Class A		Class B	
MHz	QUASI-PEAK	AVERAGE	QUASI-PEAK	AVERAGE
0.15 - 0.50	79	66	66-56	56-46
0.50 - 5.0	73	60	56	46
5.0 - 30	73	60	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

8. Description of Radiated Emissions Test

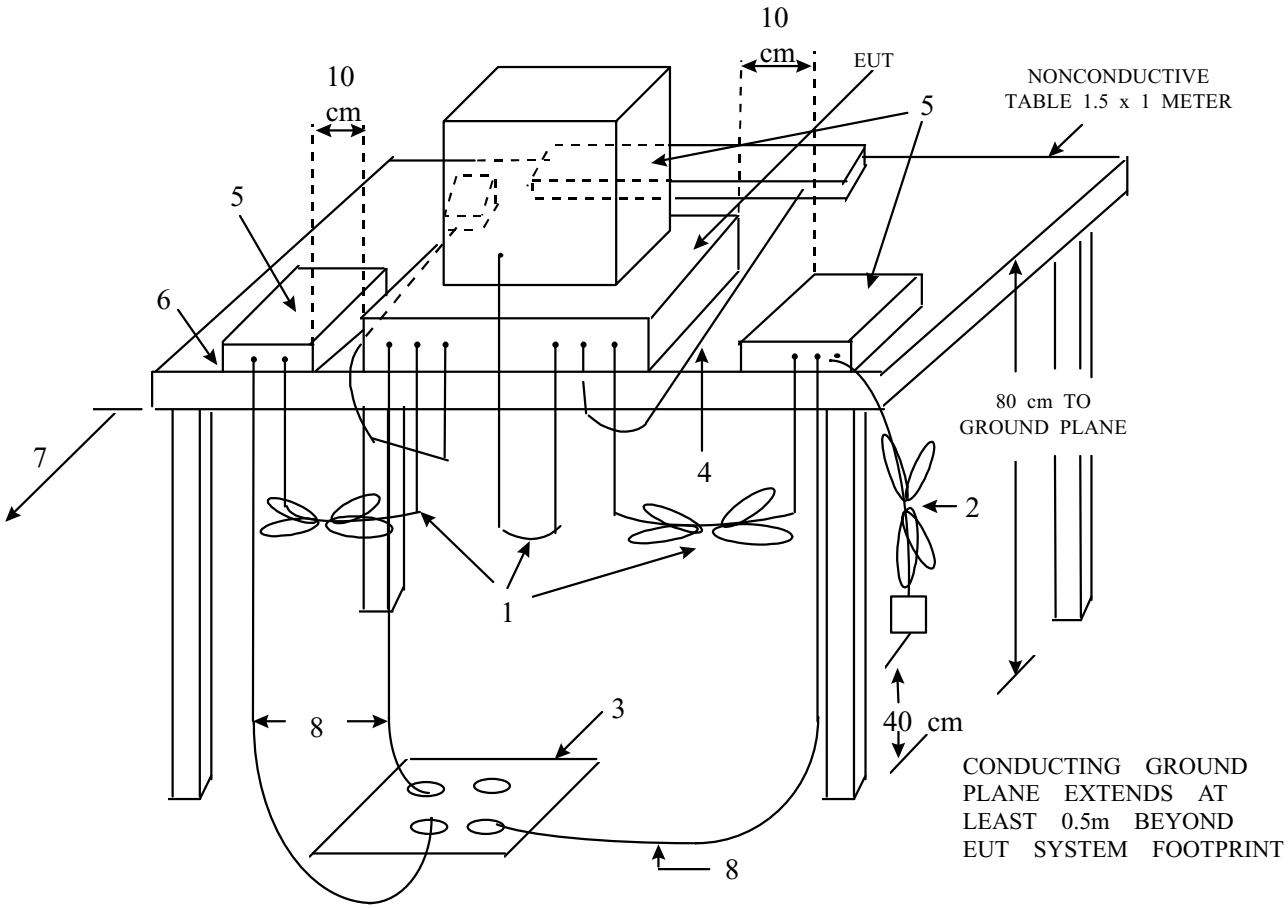
8.1 Radiated Emissions

Preliminary measurements were made indoors chamber at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 1000 MHz using logbicon antenna. Above 1GHz, linearly polarized double ridge horn antenna was used.

Final measurements were made outdoors at 10-meter test range using logbicon antenna and horn antenna. The test equipment was placed on a wooden bench situated on a 1.5x1 meter area adjacent to the measurement area. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz.

The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet , if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in radiated emission test photo.

8.2 Test Configuration



LEGEND

1. Interconnecting cables which hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long. hanging approximately in the middle between ground plane and table.
2. I/O cables which are connected to a peripheral hall be bundled in center. The end of the cable may b terminated if required using correct terminating impedance. The total length shall not exceed 1 m.
3. If LISN are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground if requires receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboards, KEYPADs, etc., have to be placed as close as possible to the controller.
5. Non-EUT components of EUT system being tested.
6. The rear of all components of the system under test shall be located flush with the rear of the table.
7. No vertical conducting wall used.
8. Power cords drape to the floor and are routed over to receptacle.

8.3 Radiated Emission Limits

Limits for radiated disturbance of Class A ITE at a measuring distance of 10 m

Frequency MHz	Field Strength dB(μV/m)
30 to 230	40
230 to 1 000	47
NOTES 1 The lower limit shall apply at the transition frequency. 2 Additional provisions may be required for cases where interference occurs.	

Limits for radiated disturbance of Class B ITE at a measuring distance of 10 m

Frequency MHz	Field Strength dB(μV/m)
30 to 230	30
230 to 1 000	37
NOTES 1 The lower limit shall apply at the transition frequency. 2 Additional provisions may be required for cases where interference occurs.	

9. Conducted Emissions Test Setup Photo

< FRONT VIEW >

10. Conducted Emissions Test Data

Model No. : **ISO-P500D**
Frequency range : **150KHz to 30MHz**
Detector : **Peak / Average Value**
Temperature : **28 ℃**
Humidity : **59 %**

Test Data : # **801** # **333** <LINE>
806 # **338** <NEUTRAL>

Note 1. Level = Read Level + Probe (LISN) Factor + Cable Loss
2. Over Limit = Level – Limit Line = Margin

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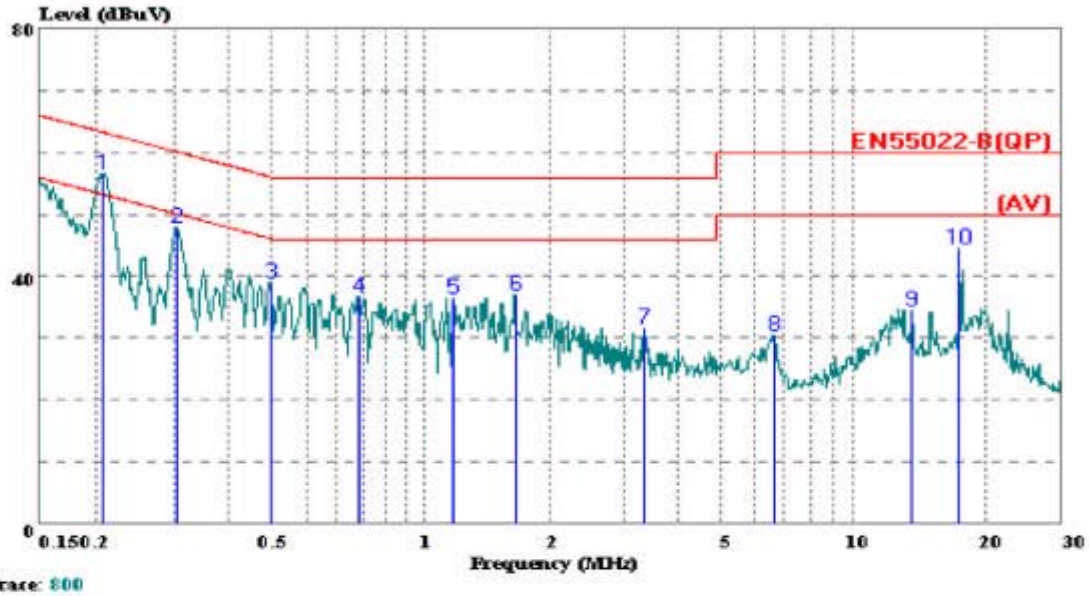
Data#: 801 File#: EN55022-B(QP).EMI Date: 2004-10-07 Time: 11:39:25



Trace: 800

Site : Conduction No.2(Mick)-Linko site
Condition: EN55022-B(QP) LISN.L(32A) LINE
eut : E930560
power : AC 120V/60Hz
memo : Peak Value
: ISO-P500D

Page: 1

		Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	!	0.207	56.58	-6.74	63.32	56.40	0.10	0.08	
2		0.305	47.91	-12.19	60.10	47.60	0.16	0.15	
3		0.497	38.97	-17.08	56.05	38.60	0.20	0.17	
4		0.783	36.81	-19.19	56.00	36.40	0.20	0.21	
5		1.282	36.47	-19.53	56.00	36.01	0.20	0.26	
6		1.762	37.10	-18.90	56.00	36.60	0.20	0.30	
7		3.436	31.58	-24.42	56.00	31.00	0.20	0.38	
8		6.769	30.31	-29.69	60.00	29.59	0.26	0.46	
9		13.768	34.48	-25.52	60.00	33.21	0.61	0.66	
10		17.661	44.55	-15.45	60.00	43.00	0.81	0.74	

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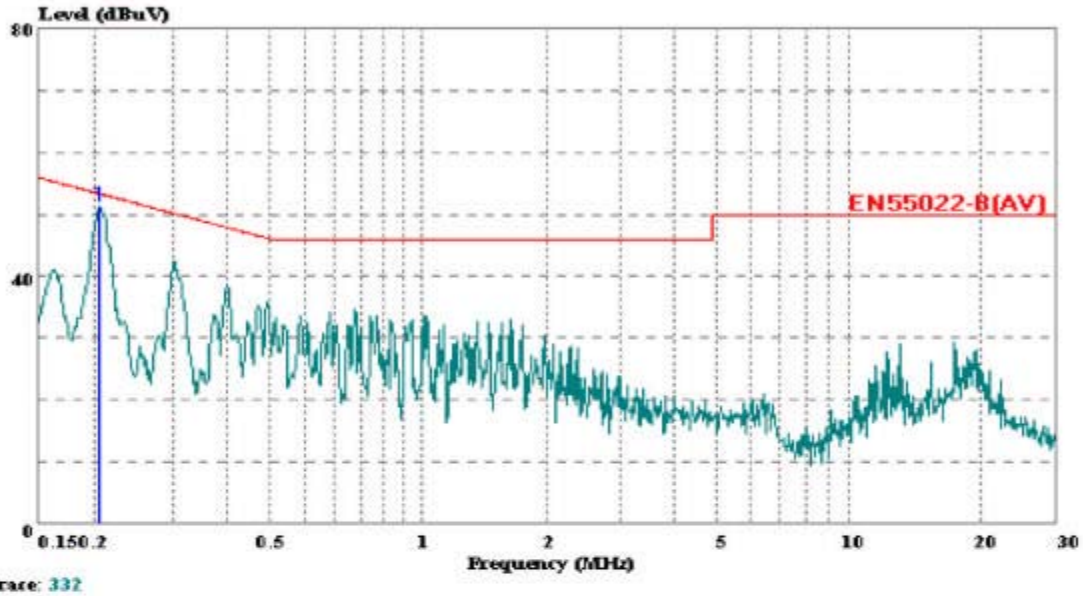
Data#: 333 File#: EN55022-B(AV).EMI Date: 2004-10-07 Time: 11:40:35



Trace: 332

Site : Conduction No.2(Mick)-Linko site
Condition: EN55022-B(AV) LISN.L(32A) LINE
eut : E930560
power : AC 120V/60Hz
memo : Average Value
: ISO-P500D

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	51.38	-2.02	53.40	51.20	0.10	0.08	

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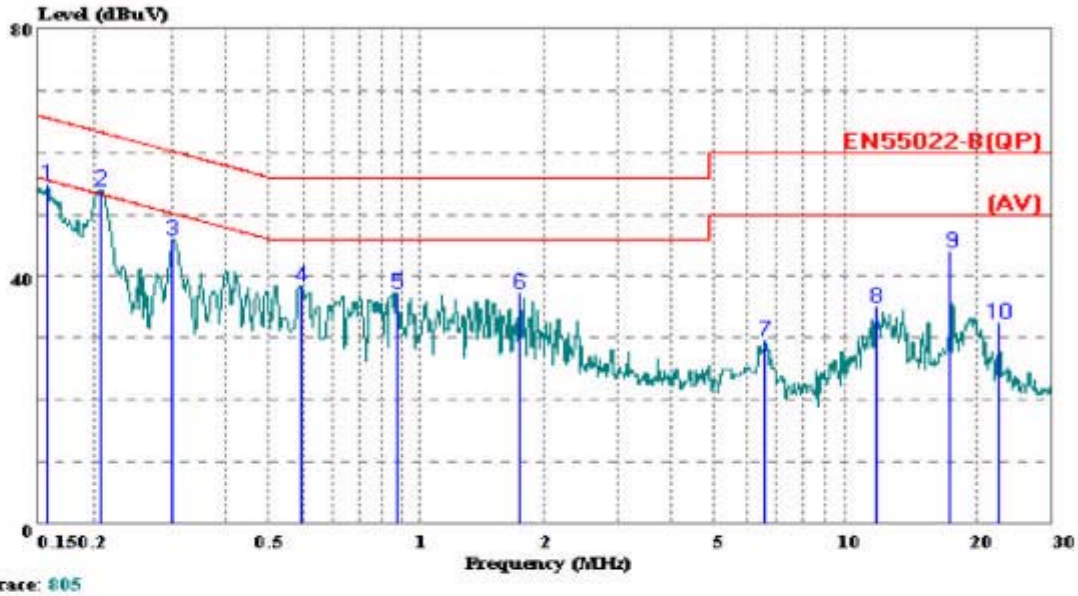
Data#: 806 File#: EN55022-B(QP).EMI Date: 2004-10-07 Time: 11:42:41



Trace: 805
Site : Conduction No.2(Mick)-Linko site
Condition: EN55022-B(QP) LISN.N(32A) NEUTRAL
eut : E930560
power : AC 120V/60Hz
memo : Peak Value
: ISO-P500D

Page: 1

		Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.157	54.72	-10.88	65.60	54.60	0.10	0.02	
2	!	0.208	53.98	-9.29	63.27	53.80	0.10	0.08	
3		0.302	45.85	-14.34	60.19	45.60	0.10	0.15	
4		0.595	38.34	-17.66	56.00	38.00	0.14	0.20	
5		0.974	37.23	-18.77	56.00	36.79	0.20	0.24	
6		1.858	37.30	-18.70	56.00	36.80	0.20	0.30	
7		6.698	29.51	-30.49	60.00	28.79	0.26	0.46	
8		11.933	35.11	-24.89	60.00	34.20	0.30	0.61	
9		17.661	43.89	-16.11	60.00	42.79	0.36	0.74	
10		22.775	32.54	-27.46	60.00	31.40	0.34	0.80	

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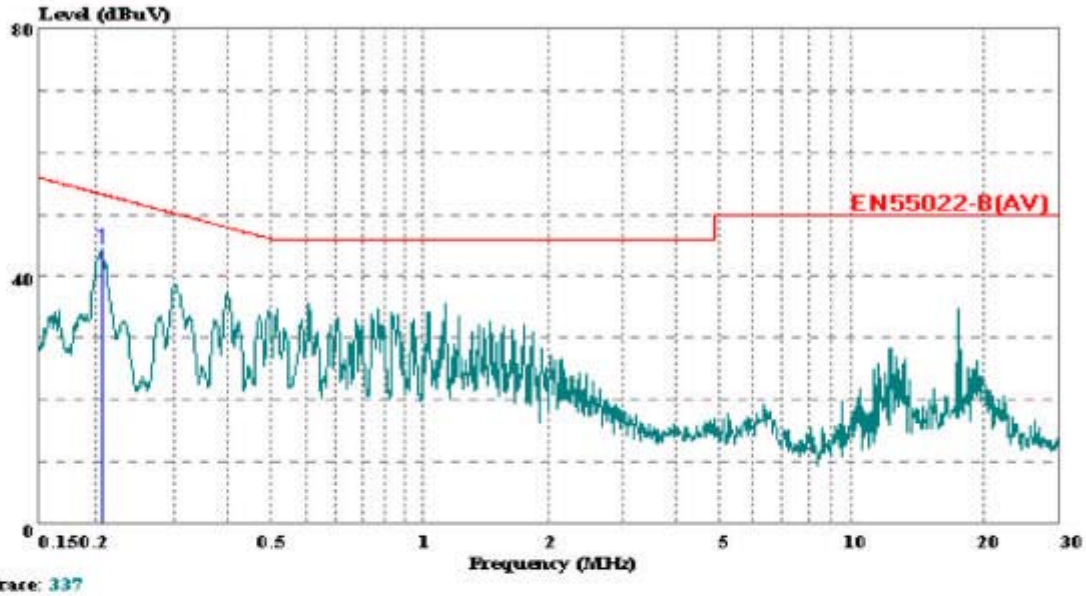
Data#: 338 File#: EN55022-B(AV).EMI Date: 2004-10-07 Time: 11:44:53



Trace: 337
Site : Conduction No.2(Mick)-Linko site
Condition: EN55022-B(AV) LISN.N(32A) NEUTRAL
eut : E930560
power : AC 120V/60Hz
memo : Average Value
: ISO-P500D

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.207	44.38	-8.94	53.32	44.20	0.10	0.08	

11. Radiated Emissions Test Setup Photos

< FRONT VIEW >

< REAR VIEW >

12. Radiated Emissions Test Data

Model No. : ISO-P500D
Frequency range : 30MHz to 1GHz Detector : Quasi-Peak Value
Temperature : 28° C Humidity : 59 %

Antenna polarization : HORIZONTAL ; Test distance : 10m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
48.156	17.81	-12.19	30.00	25.82	10.83	0.72	19.56	176.0	4.0
66.546	19.41	-10.59	30.00	29.79	8.15	0.87	19.40	193.0	4.0
147.289	19.79	-10.21	30.00	21.86	16.11	1.24	19.42	154.0	4.0
166.222	16.75	-13.25	30.00	19.18	15.61	1.34	19.38	24.0	4.0
200.553	19.97	-10.03	30.00	26.48	11.49	1.50	19.50	199.0	4.0
219.000	18.66	-11.34	30.00	25.05	11.33	1.50	19.22	215.0	3.8

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

Model No. : ISO-P500D
Frequency range : 30MHz to 1GHz Detector : Quasi-Peak Value
Temperature : 28° C Humidity : 59 %

Antenna polarization : VERTICAL ; Test distance : 10m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (°angle)	Antenna High(m)
31.533	18.50	-11.50	30.00	26.80	10.63	0.53	19.46	177.0	1.0
47.975	20.61	-9.39	30.00	28.62	10.84	0.71	19.56	148.0	1.0
66.478	18.94	-11.06	30.00	29.24	8.22	0.86	19.38	197.0	1.0
144.160	18.23	-11.77	30.00	20.79	15.60	1.18	19.34	183.0	1.0
170.561	17.87	-12.13	30.00	20.94	14.86	1.37	19.30	171.0	1.0
218.978	19.69	-10.31	30.00	26.08	11.33	1.50	19.22	243.0	1.4

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

13. List of Measured Instruments

Test Mode	Instrument	Model No.	Serial No.	Next Cal. Date	Cal. Interval
Conduction (No.2)	Advantest Spectrum	R3261A	91720076	Jun. 09, 2005	1Year
	R & S LISN(EUT)	ESH2-Z5	831886/004	Apr. 06, 2005	1Year
	Kyoritsu LISN(2nd)	KNW-242	8-837-7	N/A	N/A
	RF Cable	No.4	N/A	Feb. 19, 2005	1Year
Radiation (OP No.3)	R & S Receiver	ESBI	845658/003	Sep. 07, 2005	1Year
	Schaffner Pre-Amp.	CPA-9232	1012	Aug. 21, 2005	1Year
	SCHWARZBECK Antenna	9161	9161-4051	May 06, 2005	1Year
	COM-Power Horn Ant.	AH-118 (1GHz~18GHz)	10095	May 21, 2005	1Year
	RF Cable	No.2	N/A	Feb. 19, 2005	1Year
	SCHWARZBECK Precision Dipole Ant.	VHAP (30MHz~1GHz)	970+971 953+954	Jun. 27, 2006	3Year
	R & S Signal Generator	SMY01	829846/038	Feb. 16, 2005	2Year

14. Duties of The Responsible Party

The responsible party upon signing or accepting the Declaration of Conformity as specified in Section 2.906 of the FCC Rules hereby agrees to the duties listed below.

§2.1073(a).
The responsible party warrants that each unit of equipment marketed under DoC is identical to the unit tested and found acceptable with the standards and that the records maintained by the responsible party continue to reflect the equipment being produced is within the variation that can be expected due to quantity production and testing on a statistical bass.

§2.1073(b).
The responsible party must have a written statement from the manufacturer or accredited test laboratory that the equipment complies with the appropriate technical standards.

§2.1073(c).
In case of transfer of control of equipment, as in the case of sale or merger, the new responsible party shall bear the responsibility of continued compliance of the equipment.

§2.1073(d).
Equipment shall be retested if any modifications or changes are made that could adversely affect the emanation characteristics of the equipment.

§2.1073(e).
If any modifications or changes made by anyone other than the responsible party, the party making the modifications of changes, if located within the U.S., becomes the new responsible part. The new responsible party must comply with all provisions for the DoC, including having test data on file demonstrating that the product continues to comply with all of the applicable technical standards.

§2.1075(a)(1).
The responsible party shall maintain records of the original design drawings and specifications and all changes made to the product that may affect compliance.

§2.1075(a)(2).
The responsible party shall maintain records of the procedures used for production inspection and testing to insure the conformance with the FCC Rules.

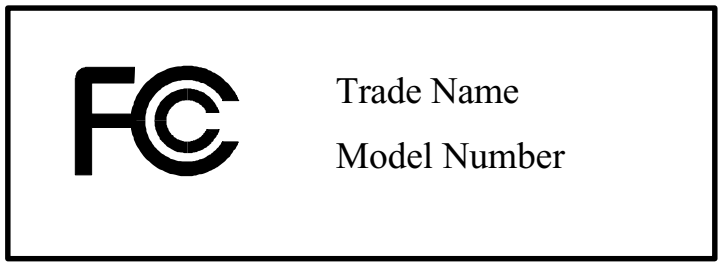
§2.946(a)(1).
The test report data shall be provided to the FCC within 14 days of delivery of request. The test sample(s) shall be provided within 60 days of delivery of request.

§2.946(b)
In case involving harmful interference or safety of life or property, the production sample must be provided within 60 days, but not less than 14 days. Failure to comply with such a request with the time frame shown may be cause for forfeiture, pursuant to Section 1.80 of Part 1 of the FCC Rules.

**The Responsible Party is the manufacturer, system integrator, or the importer as defined in Section 2.909 of the FCC Rules. The Rules. The Responsible Party for a DoC must be located within the United States as specified in Section 2.1077.*

15. Labelling Requirements

The sample label shown below shall be permanently affixed at a conspicuous location on the device, instructions manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practicable, only the trade name, model number, and the FCC logo must be displayed on the device per Section §15.19 (b)(1)(i).



16. Information To The User

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

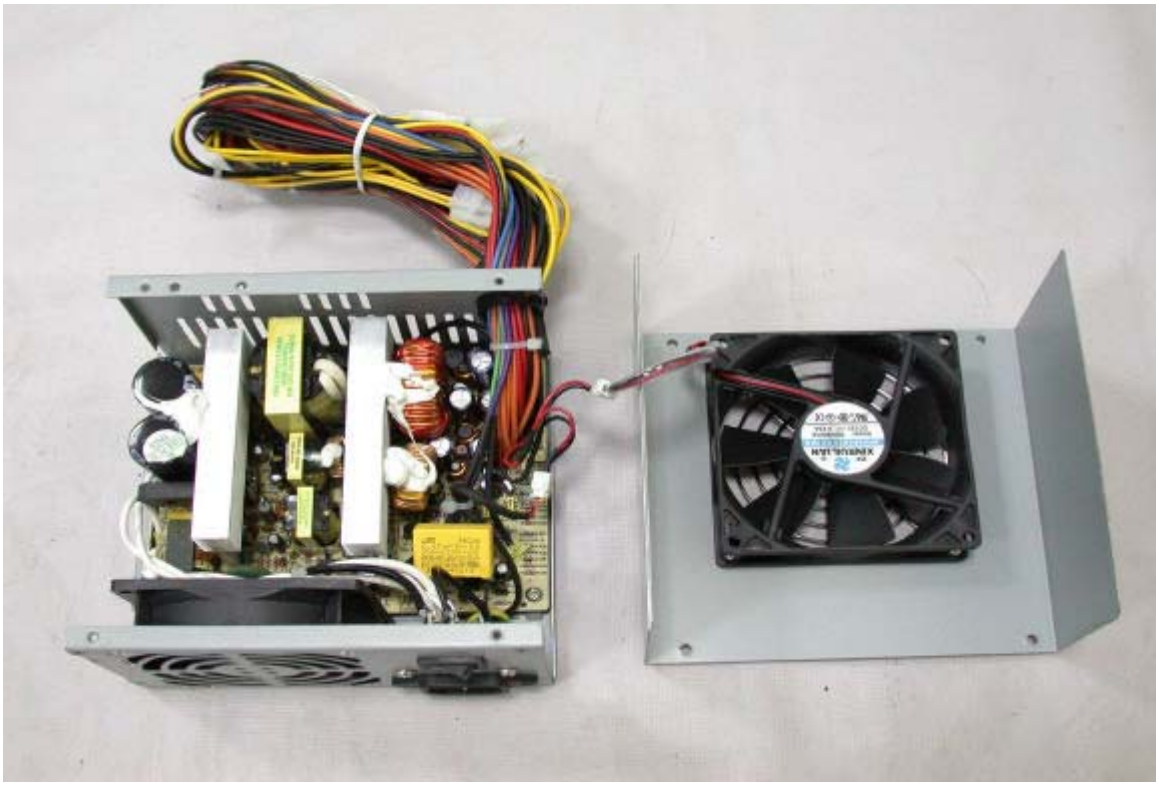
Federal Communications Commission (FCC) Statement

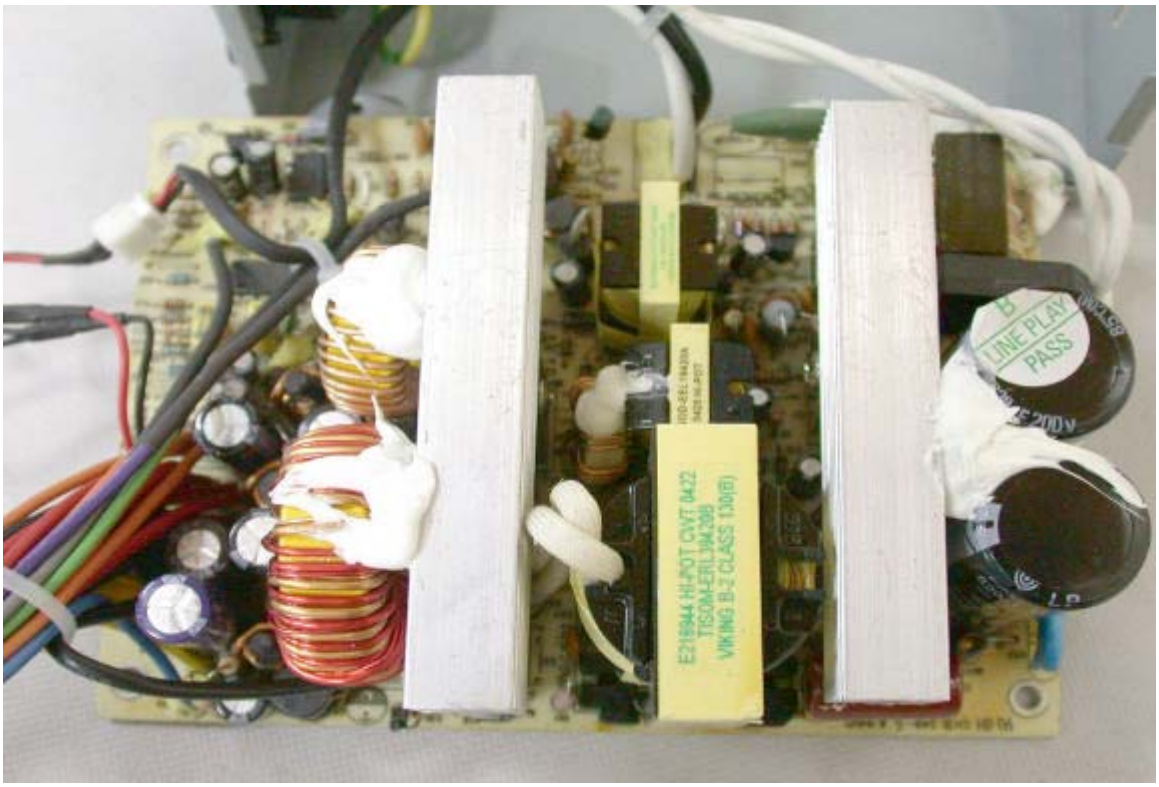
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

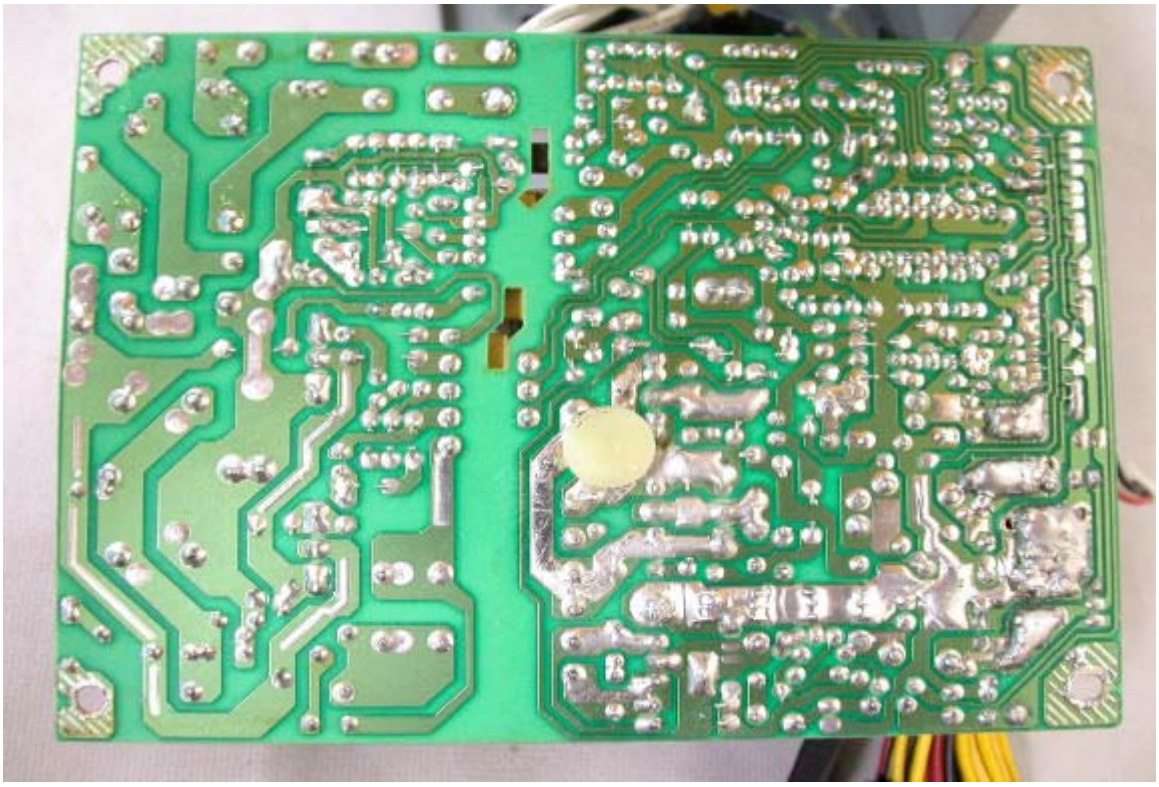
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

17. EUT Photographs

Model No. : ISO-P500D




LINE PLAY
PASS



E216944 HI-POT CWT 0422
TISOM-ERL39420B
VIKING B-2 CLASS 130(B)

HQX
0.47μF (K) X2
250V~ 275V~GMF
05/04
IEC384-14 II

DECLARATION OF CONFORMITY CERTIFICATE

Responsible Party :	CHANNEL WELL TECHNOLOGY CO., LTD
Address :	3F-2, 888 Jing-Gwo Rd., Tao Yuan City, Taiwan, R. O. C.
Contact Person :	Jacky Hsieh / Engineer
Equipment :	Switching Power Supply
Model No.:	ISO-Pxxxy (xxx = 250, 300, 350, 400, 450, 500；y = S, D or L), ISO-xxxy (xxx = 200, 230, 250, 300, 350, 400, 450, 500；y = D, L or blank)
Traceability:	FCC Part 15 & Part 2; Docket 95-19
Limitation:	CISPR 22 CLASS B
Date of issued:	NOV. 09, 2004
Report No.:	E930560

The device bearing the trade name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-1992. (See Test Report if any modifications were made for compliance.)

PEP certifies that no party to this application has been denied the NVLAP benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).

Peter Kao

Peter Kao/NVLAP Signatory

NVLAP LAB CODE: 200097-0

DECLARATION OF CONFORMITY

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:	CHANNEL WELL TECHNOLOGY CO., LTD
Address:	3F-2, 888 Jing-Gwo RD., Tao Yuan City, Taiwan, R. O. C.
Contact Person:	Jacky Hsieh / Engineer
Phone No.:	886-3-3163111 Fax No.: 886-3-3160455

Equipment	:	Switching Power Supply
Model No.	:	ISO-Pxxxy (xxx = 250, 300, 350, 400, 450, 500；y = S, D or L), ISO-xxxy (xxx = 200, 230, 250, 300, 350, 400, 450, 500；y = D, L or blank)

We hereby declare that the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC Rules under the most accurate measurement standards possible, and that all the necessary steps have been taken and are in force to assure that production units of the same equipment will continue to comply with the Commission s requirements.

FC

Signature Date